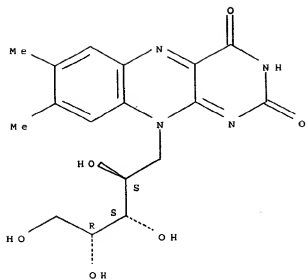


/L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 AN ***1958:50929*** CAPLUS
 DN 52:50929
 OREF 52:92271,9228a-c
 TI Lactoflavine and 2',3',4'-triacyllactoflavine
 IN Sato, Tetsuo; Sato, Kazuyoshi
 PA Tokyo Institute of Technology
 DT Patent
 LA Unavailable
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 32003277		19570601	JP	
AB	<p>Electrolytic reduction of D-ribonolactone in Na₂SO₄ as an electrolyte and H₃BO₃ as a buffer, concn. of the electrolyte, adding alc. and removing Na₂SO₄ gave 200 ml. sirup (I) contg. 30 g. D-ribose and 10 g. H₃BO₃. I treated with 35 g. 4,5,2-Me₂(O₂N)C₆H₂NH₂, stirred 2 hrs. at room temp., and kept overnight at 0.degree. gave 50 g. 2-nitro-1-(D-ribosidamino)-4,5-dimethylbenzene-H₃BO₃ complex (II), m. 195-7.degree.. Catalytically reducing of 50 g. II and 36 g. alloxan in 400 ml. EtOH with 8 g. Raney Ni, concn. of the product, adding 180 ml. 18% HCl, adding H₂O₂ dropwise and dilg. the soln. with H₂O gave 40 g. vitamin B₂, m. 280-1.degree. (decompn.). D-Ribose (15 g.) and 6 g. H₃BO₃ in 20 ml. alc. treated with 18 g. 4,5,2-Me₂(O₂N)C₆H₂NH₂ in 50 ml. alc., kept 2 hrs. at room temp. and overnight at 0.degree. gave 25 g. II, m. 195-7.degree.. Catalytic reduction of 25 g. II and 18 g. alloxan in 150 ml. alc. with 5 g. Raney Ni at high pressure and treatment of the product as above gave 22 g. vitamin B₂, m. 280-1.degree.. II (50 g.), 150 ml. Ac₂O and 20 g. AcONa refluxed 2 hrs., the Ac₂O removed in vacuo, the residue in ice H₂O extd. with CHCl₃, the CHCl₃ removed, the residue with 20 g. alloxan in 300 ml. MeOH reduced with 10 g. Raney Ni and H and the product treated as above gave 42 g. 2',3',4'-triacyllactoflavine, m. 202-3.degree. (decompn.).</p>				
IT	<p>Boric acid, esters (cyclic) with N-(6-nitro-3,4-xylyl)-D-ribosylamine</p>				
IT	<p>***83-88-5***, Riboflavine ***116081-53-9***, Riboflavine, 2',3',4'-triacetate (prepn. of)</p>				
IT	<p>***1942-28-5***, 1,3,2-Dioxaborolane (sugar derivs.)</p>				
IT	<p>***83-88-5***, Riboflavine ***116081-53-9***, Riboflavine, 2',3',4'-triacetate (prepn. of)</p>				
RN	83-88-5 CAPLUS				
CN	Riboflavin (8CI, 9CI) (CA INDEX NAME)				

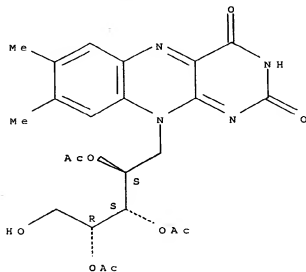
Absolute stereochemistry.



RN 116081-53-9 CAPLUS

CN Riboflavin, 2',3',4'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT ***1942-28-5*** , 1,3,2-Dioxaborolane
(sugar derivs.)

RN 1942-28-5 CAPLUS

CN 1,3,2-Dioxaborolane (7CI, 8CI, 9CI) (CA INDEX NAME)

